

## 12158040 TULALIP CREEK NEAR TULALIP, WA

LOCATION.--Lat 48°04'07", long 122°17'12", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ , sec.22, T.30 N., R.4 E., Snohomish County, Hydrologic Unit 17110019, Tulalip Indian Reservation, on left bank 200 ft upstream from highway crossing, 0.15 mi east of Tulalip and 0.30 mi above mouth.

DRAINAGE AREA.--15.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1974 to September 1977, November 2000 to current year. Published as "at Tulalip" 1974-77.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 39.9 ft above NGVD of 1929, from precision Global Positioning System (GPS). October 1974 to September 1977, water-stage recorder, at site 600 ft upstream from highway crossing, at different datum.

REMARKS.--Records good, except for estimated daily discharges, and discharges below 15 ft<sup>3</sup>/s, and above 80 ft<sup>3</sup>/s, which are fair. Some regulation at outlet of Lake Shoecraft, drainage area 6.12 mi<sup>2</sup>, and natural regulation in lakes and ponds in basin. Minor diversions above station for domestic use from East Branch Tulalip Creek. Tulalip Fish Hatchery diverts entire flow at times from East Branch Tulalip Creek, and Tulalip Creek above East Branch for use in hatchery. Water is returned to creek above station. Chemical analysis November 1974 to March 1977, water temperature October 1974 to March 1977.

AVERAGE DISCHARGE.--6 years (water years 1975-77, 2002-04), 11.9 ft<sup>3</sup>/s, 10.52 in/yr, 8,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft<sup>3</sup>/s, Dec. 17, 2001, gage height, 97.81 ft; minimum discharge, 2.0 ft<sup>3</sup>/s, Aug. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft<sup>3</sup>/s, Nov. 19, gage height, 97.33 ft; minimum discharge, 3.4 ft<sup>3</sup>/s, July 25, 28, 29, 31.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	11	7.6	8.9	23	17	13	5.6	8.8	4.6	4.3	5.3
2	6.1	12	9.2	8.6	21	16	12	5.6	7.3	4.7	4.4	6.3
3	6.3	11	18	8.2	20	18	11	5.6	6.7	5.4	4.4	5.4
4	6.4	11	12	e7.2	20	24	11	5.7	6.1	5.1	4.5	5.0
5	6.7	11	15	e7.0	20	21	11	6.3	6.1	4.8	4.7	5.0
6	6.9	11	23	7.5	20	19	10	5.8	7.5	5.7	5.5	4.7
7	8.8	11	15	9.7	22	19	9.9	6.1	6.4	6.2	6.1	4.7
8	8.1	12	12	17	20	18	9.5	6.3	6.1	5.2	5.2	4.7
9	7.5	12	11	16	19	18	9.2	5.9	5.7	5.0	4.8	4.8
10	7.3	15	11	14	19	17	8.9	5.7	11	5.3	4.6	4.8
11	8.1	20	11	13	18	16	8.5	6.1	13	4.9	4.4	7.0
12	8.8	12	11	11	17	14	8.0	5.7	8.1	4.8	4.5	7.8
13	10	11	10	11	17	13	7.9	5.5	7.8	4.7	4.5	7.8
14	8.2	9.9	9.6	11	18	13	8.1	5.5	7.3	4.7	4.5	8.3
15	8.6	9.7	9.2	12	18	12	7.8	5.4	6.4	4.7	4.5	7.2
16	11	12	9.8	12	19	12	7.7	6.2	5.8	4.6	4.5	7.6
17	15	13	10	11	20	14	7.7	5.6	5.5	4.6	4.6	7.8
18	12	18	9.2	12	21	14	7.3	5.5	5.1	4.6	4.6	6.9
19	9.5	47	8.9	11	22	15	7.3	5.3	4.9	4.6	4.5	7.4
20	15	24	8.8	11	20	13	7.5	5.3	4.8	4.5	4.4	6.5
21	18	14	8.5	11	19	13	7.1	5.4	4.7	e4.4	4.6	6.1
22	12	10	8.1	10	18	13	6.8	7.0	4.7	e4.3	6.3	5.9
23	13	9.0	8.0	14	17	12	6.8	6.3	4.8	4.4	6.3	6.1
24	11	9.9	8.8	23	17	13	6.4	5.6	5.1	4.3	6.0	6.2
25	9.3	9.9	9.0	27	16	13	6.4	5.6	5.1	4.3	8.3	5.9
26	9.0	9.7	9.0	19	16	14	6.4	9.0	4.8	4.4	7.3	5.9
27	9.1	8.8	10	15	18	14	6.3	12	4.6	4.4	5.8	5.8
28	11	8.4	12	14	18	13	6.1	32	4.6	4.2	5.5	5.9
29	14	8.2	10	31	17	12	5.8	14	4.6	4.3	4.9	6.0
30	13	7.8	9.1	33	---	13	5.8	9.8	4.5	4.3	4.7	5.8
31	11	---	9.0	26	---	14	---	11	---	4.3	4.5	---
TOTAL	306.8	389.3	332.8	442.1	550	467	247.2	232.4	187.9	146.3	157.7	184.6
MEAN	9.90	13.0	10.7	14.3	19.0	15.1	8.24	7.50	6.26	4.72	5.09	6.15
MAX	18	47	23	33	23	24	13	32	13	6.2	8.3	8.3
MIN	6.1	7.8	7.6	7.0	16	12	5.8	5.3	4.5	4.2	4.3	4.7
AC-FT	609	772	660	877	1,090	926	490	461	373	290	313	366
CFSM	0.64	0.84	0.70	0.93	1.23	0.98	0.54	0.49	0.41	0.31	0.33	0.40
IN.	0.74	0.94	0.80	1.07	1.33	1.13	0.60	0.56	0.45	0.35	0.38	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	8.67	11.6	17.0	17.4	17.2	17.5	15.4	10.2	7.61	5.76	6.37	6.31
MAX	10.8	16.1	32.6	26.8	26.4	23.3	27.0	12.8	10.5	7.18	9.18	7.27
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(1975)	(1976)	(2002)	(2001)	(2002)	(1976)	(1977)
MIN	5.69	8.60	9.05	8.06	7.63	12.7	8.24	7.50	5.32	3.66	4.31	5.22
(WY)	(1975)	(1977)	(1977)	(1977)	(1977)	(1977)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)

## TULALIP AND MISSION CREEK BASINS

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1975 - 2004
ANNUAL TOTAL	3,602.3	3,644.1	
ANNUAL MEAN	9.87	9.96	
HIGHEST ANNUAL MEAN			11.9
LOWEST ANNUAL MEAN			16.1
HIGHEST DAILY MEAN	47	Nov 19	8.75
LOWEST DAILY MEAN	3.1	Jul 23	Dec 17, 2001
ANNUAL SEVEN-DAY MINIMUM	3.3	Jul 23	3.1
ANNUAL RUNOFF (AC-FT)	7,150	7,230	3.3
ANNUAL RUNOFF (CFSM)	0.641	0.647	8,640
ANNUAL RUNOFF (INCHES)	8.70	8.80	0.774
10 PERCENT EXCEEDS	16	18	10.52
50 PERCENT EXCEEDS	9.8	8.4	23
90 PERCENT EXCEEDS	4.2	4.6	9.0
			5.3

e Estimated